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=> fil reg
FILE 'REGISTRY' ENTERED AT 08:41:12 ON 11 JAN 2010
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STRUCTURE FILE UPDATES:   10 JAN 2010  HIGHEST RN 1201787-64-5
DICTIONARY FILE UPDATES:  10 JAN 2010  HIGHEST RN 1201787-64-5

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http://www.cas.org/support/stngen/stndoc/properties.html

=> d que l19
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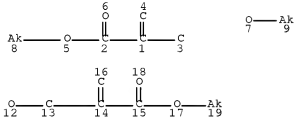


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DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
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NUMBER OF NODES IS  17

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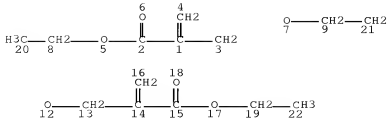

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DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS 20

STEREO ATTRIBUTES: NONE
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L18 6 SEA FILE=REGISTRY SPE=ON ABB=ON PLU=ON L17 NOT (S OR N OR P)/ELS
L19 7 SEA FILE=HCAPLUS SPE=ON ABB=ON PLU=ON L18

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FILE 'HCAPLUS' ENTERED AT 08:41:34 ON 11 JAN 2010
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

FILE COVERS 1907 - 11 Jan 2010 VOL 152 ISS 3
FILE LAST UPDATED: 10 Jan 2010 (20100110/ED)
REVISED CLASS FIELDS (/NCL) LAST RELOADED: Oct 2009
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Oct 2009

HCAplus now includes complete International Patent Classification (IPC) reclassification data for the third quarter of 2009.

CAS Information Use Policies apply and are available at:

http://www.cas.org/legal/infopolicy.html

This file contains CAS Registry Numbers for easy and accurate

substance identification.

=> d l19 1-7 ibib ed abs hitstr hitind

L19 ANSWER 1 OF 7 HCAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 2008:1012782 HCAPLUS Full-text
DOCUMENT NUMBER: 149:269595
TITLE: Electron beam-curable composition and producing cured coating, ink or adhesive
INVENTOR(S): Kunita, Kazuto
PATENT ASSIGNEE(S): Fujifilm Corporation, Japan
SOURCE: U.S. Pat. Appl. Publ., 32pp.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 20080200581	A1	20080821	US 2008-27648	20080207
JP 2008201889	A	20080904	JP 2007-39379	20070220
PRIORITY APPLN. INFO.:			JP 2007-39379 A	20070220

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT
ED Entered STN: 22 Aug 2008
AB Producing an electron beam-cured coating includes forming on a substrate a layer of a curable composition that includes ≥1 compound CH2:C(Q1)CARbRaX1 (I) and a step of curing the layer of the curable composition by irradiating with an electron beam. In I, Q1 = cyano group or -COX2 group, X1 = H, organic residue, or polymer chain bonded to C atom CA via a heteroatom, or halogen, X2 = H, organic residue, or polymer chain bonded to the carbonyl group via a heteroatom, or halogen, Ra and Rb = H, halogen, cyano group, or an organic residue, and X1 and X2, Ra and Rb, and X1 and Ra or Rb may be bonded to each other to form a cyclic structure. An example curable composition contained F 177 surfactant 0.03, cyclohexanone 20, and CH2:C(COX2)CH2X1 (X2 = OEt; X1 = OCH2CH2OCOMe) 10 parts.
IT 1047993-80-5P
(electron beam-curable composition with good adhesion to PET substrate)
RN 1047993-80-5 HCAPLUS
CN 4,7,10,13-Tetraoxahexadecanedioic acid, 2,15-bis(methylene)-, 1,16-diethyl ester, homopolymer (CA INDEX NAME)

CM 1

CRN 896113-18-1
CMF C18 H30 O8

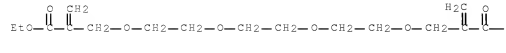
—OEt

INCL 522104000
CC 42-7 (Coatings, Inks, and Related Products)
Section cross-reference(s): 37
IT 333306-31-3P 333306-34-6P 1047993-72-5P 1047993-74-7P
1047993-75-8P 1047993-78-1P 1047993-80-5P
1047993-83-8P 1047993-86-1P 1047993-89-4P 1047993-91-8P
1047993-94-1P 1047993-96-3P 1047993-99-6P 1047994-01-3P
1047994-03-5P
(electron beam-curable composition with good adhesion to PET substrate)

L19 ANSWER 2 OF 7 HCAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 2006:673215 HCAPLUS Full-text
DOCUMENT NUMBER: 145:113448
TITLE: Radiation-curable ink-jet inks containing ethylenically polymerizable crosslinking agents with excellent storage stability and sensitivity, lithographic plates using them, and their manufacture
INVENTOR(S): Sugai, Shoji; Kunita, Kazuto
PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 44 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2006182990	A	20060713	JP 2004-380665	20041228
PRIORITY APPLN. INFO.:			JP 2004-380665	20041228

ED Entered STN: 13 Jul 2006
AB The inks contain polymerizable compds., colorants, and ≥1 crosslinking agents selected from those bearing 2 ethylenically polymerizable groups and those bearing ≥3 ethylenically polymerizable groups, thus giving wear-resistant hydrophobic images on hydrophilic supports without a development process.
IT 896113-18-1
(storage-stable radiation-curable ink-jet inks containing heteromethacrylic crosslinking agents for lithog. plates with good wear resistant)
RN 896113-18-1 HCAPLUS
CN 4,7,10,13-Tetraoxahexadecanedioic acid, 2,15-bis(methylene)-, 1,16-diethyl ester (CA INDEX NAME)



—OEt

CC 74-6 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)
Section cross-reference(s): 38, 42
IT 3524-68-3D, Pentaerythritol triacrylate, reaction products with polyurethane 4813-57-4, Stearyl acrylate 5888-33-5, Isobornyl acrylate 23350-07-4D, derivs. 25035-42-1D, reaction products with pentaerythritol triacrylate 25038-59-9D, Ethylene glycol-terephthalic acid copolymer, terminated 25748-74-7D, reaction products with pentaerythritol triacrylate 51248-94-3 872552-19-7 896113-17-0D, derivs. 896113-18-1 896113-19-2
(storage-stable radiation-curable ink-jet inks containing heteromethacrylic crosslinking agents for lithog. plates with good wear resistant)
OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)

L19 ANSWER 3 OF 7 HCAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 2005:120909 HCAPLUS Full-text
DOCUMENT NUMBER: 142:198979
TITLE: New polyether based monomers, crosslinkers, and highly crosslinked amphiphile polyether resins
INVENTOR(S): Cote, Simon
PATENT ASSIGNEE(S): Matrix Innovation Inc., Can.
SOURCE: PCT Int. Appl., 75 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005012277	A1	20050210	WO 2004-CA1461	20040804
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
CA 2534616	A1	20050210	CA 2004-2534616	20040804
EP 1687343	A1	20060809	EP 2004-761625	20040804
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK				
CN 1856483	A	20061101	CN 2004-80027888	20040804
JP 2007501296	T	20070125	JP 2006-522190	20040804

US 20060241245	A1	20061026	US 2006-567430		20060425
PRIORITY APPLN. INFO.:			US 2003-491969P	P	20030804
			WO 2004-CA1461	W	20040804

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

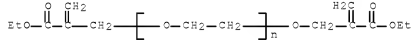
ED Entered STN: 11 Feb 2005

AB The crosslinked polyether is obtained by polymerization of ≥1 monomer selected from the group consisting of (a) (α-X-methyl) vinyl-electron withdrawing group (EWG), (α-X-methyl) vinyl-electron releasing group (ERG), or (α-X-methyl) vinyl-aryl, where X = O, S, polyethylene glycol (PEG), polypropylene glycol (PPG) or poly(THF), (b) a monomer polymerizable with a PEG, PPG or poly(THF) crosslinker having ≥1 (α-X-methyl) vinyl-EWG, (α-X-methyl) vinyl-ERG or (α-X-methyl) vinyl-aryl, where X = O, S, PEG, PPG, or poly(THF), (c) a PEG, PPG, or poly(THF) crosslinker having at least an acrylamide or a methacrylamide end group, and (d) mixts.

IT 333305-83-2P
(preparation and radical crosslinking, end group reduction or hydrolysis, bromination)

RN 333305-83-2 HCAPLUS

CN Poly(oxy-1,2-ethanediyl), α-(3-ethoxy-2-methylene-3-oxopropyl)-ω-(3-ethoxy-2-methylene-3-oxopropoxy)- (9CI) (CA INDEX NAME)



IC ICM C07D305-14
ICS C08G065-02; C08F261-06; C08F283-00; C08F002-18; C08J003-24; C08F016-12

CC 37-3 (Plastics Manufacture and Processing)
Section cross-reference(s): 34

IT 333305-83-2P
(preparation and radical crosslinking, end group reduction or hydrolysis, bromination)

OS.CITING REF COUNT: 12 THERE ARE 12 CAPLUS RECORDS THAT CITE THIS RECORD (15 CITINGS)

REFERENCE COUNT: 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L19 ANSWER 4 OF 7 HCAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER:	2005:120699 HCAPLUS Full-text
DOCUMENT NUMBER:	142:204753
TITLE:	Pharmaceutical compositions of adsorbates of amorphous drugs and lipophilic microphase-forming materials
INVENTOR(S):	Babcock, Walter Christian; Friesen, Dwayne Thomas; Shanker, Ravi Mysore; Smithey, Daniel Tod
PATENT ASSIGNEE(S):	Pfizer Products Inc., USA
SOURCE:	PCT Int. Appl., 72 pp. CODEN: PIXXD2
DOCUMENT TYPE:	Patent
LANGUAGE:	English
FAMILY ACC. NUM. COUNT:	1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005011635	A2	20050210	WO 2004-IB2498	20040723
WO 2005011635	A3	20050317		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
CA 2532931	A1	20050210	CA 2004-2532931	20040723
EP 1653927	A2	20060510	EP 2004-744149	20040723
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BR 2004013277	A	20061010	BR 2004-13277	20040723
JP 2007501218	T	20070125	JP 2006-522429	20040723
US 20050031693	A1	20050210	US 2004-910448	20040803
MX 2006001417	A	20060515	MX 2006-1417	20060203
PRIORITY APPLN. INFO.:			US 2003-492410P P	20030804
			WO 2004-IB2498 W	20040723

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

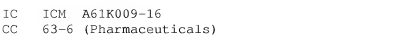
ED Entered STN: 11 Feb 2005

AB A pharmaceutical composition comprises a solid adsorbate comprising a drug adsorbed onto a substrate and a lipophilic microphase-forming material. The solid adsorbate may also be co-administered with a lipophilic microphase-forming material to an in vivo use environment. The compns. of the present invention enhance the concentration of drug in a use environment. A drug/substrate adsorbate containing 50% [2R,4S] 4-[(3,5-bis-trifluoromethyl-benzyl)-methoxycarbonyl-amino]-2-ethyl-6- trifluoromethyl-3,4-dihydro-2H-quinoline-1-carboxylic acid Et ester and 50% CAB-O-SIL M-5P was prepared The maximum concentration of drug in solution during the first 90 min MDC90 and AUC90 was 17.0 μg/mL and 840 min*μg/mL.

IT 333305-83-2
(pharmaceutical compns. of adsorbates of amorphous drugs and lipophilic microphase-forming materials)

RN 333305-83-2 HCAPLUS

CN Poly(oxy-1,2-ethanediyl), α-(3-ethoxy-2-methylene-3-oxopropyl)-ω-(3-ethoxy-2-methylene-3-oxopropoxy)- (9CI) (CA INDEX NAME)



IC ICM A61K009-16

CC 63-6 (Pharmaceuticals)

IT 56-81-5D, Glycerol, fatty acid esters 57-55-6D, Propylene glycol, glycerides 7384-98-7, Propylene glycol dicaprylate 9002-89-5 9002-96-4, α-Tocopheryl polyethylene glycol succinate 9003-39-8, Polyvinylpyrrolidone 9004-38-0, Cellulose acetate phthalate 9004-65-3, Hydroxypropyl methyl cellulose 9005-64-5 9005-65-6 9050-31-1, Hydroxypropyl methyl cellulose phthalate 12441-09-7D, Sorbitan, polyglyceryl esters 27194-74-7, Propylene glycolmonolaurate 37205-99-5, Carboxymethylethyl cellulose 52907-01-4, Cellulose acetate trimellitate 57107-95-6 70535-77-2, Hydroxypropyl methyl cellulose acetate succinate 119574-41-3 333305-83-2
(pharmaceutical compns. of adsorbates of amorphous drugs and lipophilic microphase-forming materials)

OS.CITING REF COUNT: 3 THERE ARE 3 CAPLUS RECORDS THAT CITE THIS RECORD (3 CITINGS)

REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L19 ANSWER 5 OF 7 HCAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2004:732258 HCAPLUS Full-text

DOCUMENT NUMBER: 141:243056

TITLE: Polymerizable phosphoric acid ester derivatives for dental compositions

INVENTOR(S): Klee, Joachim E.; Lehmann, Uwe; Walz, Uwe; Liu, Huaibing

PATENT ASSIGNEE(S): Dentsply Detrey GmbH, Germany

SOURCE: Eur. Pat. Appl., 20 pp.
CODEN: EPXXDW

DOCUMENT TYPE: Patent

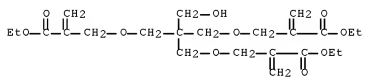
LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1454911	A1	20040908	EP 2003-5174	20030307
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
CA 2518202	A1	20040916	CA 2004-2518202	20040305
WO 2004078100	A2	20040916	WO 2004-EP2289	20040305
WO 2004078100	A3	20041028		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI				
RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
EP 1601679	A2	20051207	EP 2004-717576	20040305
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK				
JP 2006520344	T	20060907	JP 2006-504563	20040305
US 20060246017	A1	20061102	US 2006-548362	20060626
PRIORITY APPLN. INFO.:			EP 2003-5174	A 20030307
			WO 2004-EP2289	W 20040305

ED Entered STN: 09 Sep 2004
AB The present invention provides a polymerizable phosphoric acid ester derivative for use in dental compns. E.g., 2,2,2-tris(2,6-dioxa-4-methylene-5-oxo-octyl)ethanol phosphoric acid ester was prepared from pentaerythritol, Et chloromethyacrylate, and then treatment with the product with POCl3 and hydrolyzed.
IT 752234-95-0P
(polymerizable phosphoric acid ester derivs. for dental compns.)
RN 752234-95-0 HCAPLUS
CN 2-Propenoic acid, 2,2'-[[2-[[[2-(ethoxycarbonyl)-2-propenyl]oxy]methyl]-2-(hydroxymethyl)-1,3-propanediyl]bis(oxymethylene)]bis-, diethyl ester (9CI) (CA INDEX NAME)



IC ICM C07F009-09
ICS A61K006-08; C08F030-02
CC 23-17 (Aliphatic Compounds)
Section cross-reference(s): 63
IT 39573-27-8P 752234-95-0P 752234-97-2P 752234-99-4P
(polymerizable phosphoric acid ester derivs. for dental compns.)
OS.CITING REF COUNT: 2 THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD (2 CITINGS)
REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

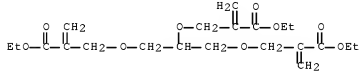
L19 ANSWER 6 OF 7 HCAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 2004:138005 HCAPLUS Full-text
DOCUMENT NUMBER: 140:375551
TITLE: Synthesis and photopolymerizations of new hydroxyl-containing dimethacrylate crosslinkers
AUTHOR(S): Avci, Duygu; Mathias, Lon J.
CORPORATE SOURCE: Department of Chemistry, Bogazici University, Istanbul, 34342, Turk.
SOURCE: Polymer (2004), 45(6), 1763-1769
CODEN: POLMAG; ISSN: 0032-3861
PUBLISHER: Elsevier Science Ltd.
DOCUMENT TYPE: Journal
LANGUAGE: English
ED Entered STN: 20 Feb 2004
AB Two new hydroxyl-containing di(meth)acrylate monomers were synthesized from the reaction of Me α-chloromethylacrylate (MCMA) and of Et α-chloromethylacrylate (ECMA) with glycerol. The monomers were obtained as mixts. of two isomers in different ratios and in combination with the analogous trimethacrylate monomers. Each monomer was isolated by column chromatog. The photopolymn. of these isomer mixts. and the trimethacrylate monomers was investigated individually by photodifferential scanning calorimetry (photoDSC) at room temperature using 2,2'-dimethoxy-2-

phenylacetophenone (DMPA) as a photoinitiator. The effect of hydrogen bonding on the rates of polymns. and conversions was examined The results obtained for the synthesized monomers were compared to the values obtained for com. monomers. The hydroxyl-containing dimethacrylates polymerize much faster and to considerably higher conversion than the trimethacrylate monomers. The maximum rates of polymerization of the hydroxyl-containing monomers were higher than that of hexanediol dimethacrylate (HDDMA), comparable to glycerol dimethacrylate and lower than hexanediol diacrylate (HDDA) and 3-(acryloyloxy)-2-hydroxypropyl methacrylate (AHM).

IT 684213-81-8
(in synthesis and photopolymn. of hydroxyl-containing dimethacrylate crosslinkers)

RN 684213-81-8 HCAPLUS

CN 2-Propenoic acid, 2,2',2''-[(1,2,3-propanetriyl)tris(oxymethylene)]tris-, triethyl ester (9CI) (CA INDEX NAME)



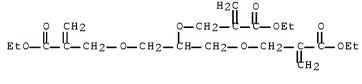
IT 684213-88-5P
(synthesis and photopolymn. of hydroxyl-containing dimethacrylate crosslinkers)

RN 684213-88-5 HCAPLUS

CN 2-Propenoic acid, 2,2',2''-[1,2,3-propanetriyltris(oxymethylene)]tris-, triethyl ester, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 684213-81-8
CMF C21 H32 O9



CC 35-3 (Chemistry of Synthetic High Polymers)

IT 684213-81-8 684213-82-9
(in synthesis and photopolymn. of hydroxyl-containing dimethacrylate crosslinkers)

IT 27813-91-8P, Hexanediol dimethacrylate polymer 684213-84-1P
684213-86-3P 684213-87-4P 684213-88-5P
(synthesis and photopolymn. of hydroxyl-containing dimethacrylate crosslinkers)

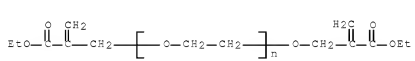
OS.CITING REF COUNT: 7 THERE ARE 7 CAPLUS RECORDS THAT CITE THIS RECORD (7 CITINGS)

REFERENCE COUNT: 27 THERE ARE 27 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L19 ANSWER 7 OF 7 HCAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 2001:242854 HCAPLUS Full-text
DOCUMENT NUMBER: 134:287884
TITLE: Photopolymerizable resin composition with α-oxymethylcrylic monomer for directly imaging lithographic plate
INVENTOR(S): Kunida, Kazuhito
PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 97 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2001092127	A	20010406	JP 1999-268842	19990922
JP 4037015	B2	20080123		
EP 1091247	A2	20010411	EP 2000-119499	20000918
EP 1091247	A3	20010425		
EP 1091247	B1	20040825		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
US 6476092	B1	20021105	US 2000-665685	20000920
PRIORITY APPLN. INFO.:			JP 1999-268842 A	19990922

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT
OTHER SOURCE(S): MARPAT 134:287884
ED Entered STN: 06 Apr 2001
AB The title photopolymerizable resin composition contains a photopolymn. initiator and photopolymerizable compound CH2=C(C(Ra)(Rb)(X1))(COOX2) (X1-2 = hetero atom, halo; Ra-b = H, halo, cyano, etc.). The resin composition, which contains α-oxymethylcrylic monomer, provides both the excellent sensitivity and the storage ability.
IT 333305-83-2P
(photopolymerizable resin composition for directly imaging lithog. plate)
RN 333305-83-2 HCAPLUS
CN Poly(oxy-1,2-ethanediyl), α-(3-ethoxy-2-methylene-3-oxopropyl)-ω-(3-ethoxy-2-methylene-3-oxopropoxy)- (9CI) (CA INDEX NAME)



IC ICM G03F007-027
ICS C08F002-48; C08F016-24; G03F007-00; G03F007-028
CC 74-6 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)
IT 9003-35-4DP, Phenol-formaldehyde copolymer, reaction products with Me

2-(hydroxymethyl)acrylate 27316-13-8P 30982-08-2P, 2-Propenoic acid,2-[(acetyloxy)methyl]-,methyl ester 127261-89-6P 151314-53-3P, 2-Propenoic acid,2-methyl-,(benzoyloxy)methyl ester 170216-64-5P 333305-67-2P 333305-69-4P 333305-71-8P 333305-73-0P 333305-75-2P 333305-77-4P 333305-79-6P 333305-81-0P 333305-83-2P 333305-85-4P 333305-87-6P 333305-89-8P 333305-91-2P 333305-93-4P 333305-95-6P 333305-97-8P 333305-99-0P 333306-01-7P 333306-03-9P 333306-05-1P 333306-07-3P 333306-09-5P 333306-11-9P 333306-13-1P 333306-15-3P 333306-17-5P 333306-18-6P 333306-21-1P 333306-24-4P 333306-28-8P 333306-31-3P 333306-34-6P 333306-36-8P 333306-38-0P 333306-40-4P 333306-42-6P 333306-44-8P 333331-74-1P, m-Cresol-p-cresol-formaldehyde copolymer ester with 2-(bromomethyl)acrylic acid
(photopolymerizable resin composition for directly imaging lithog. plate)

OS.CITING REF COUNT: 13 THERE ARE 13 CAPLUS RECORDS THAT CITE THIS RECORD (13 CITINGS)

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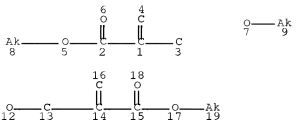

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CONNECT IS E1  RC AT  19
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DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS  17

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L11          140 SEA FILE=REGISTRY SPE=ON  ABB=ON  PLU=ON  L9 NOT 1-100/NR
L12           92 SEA FILE=REGISTRY SPE=ON  ABB=ON  PLU=ON  L11 NOT (S OR N
                 OR P OR SI)/ELS
L14               STR
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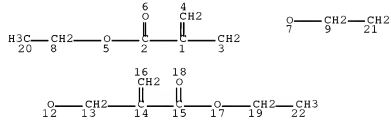

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DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

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L18            6 SEA FILE=REGISTRY SPE=ON  ABB=ON  PLU=ON  L17 NOT (S OR N
                 OR P)/ELS
L19            7 SEA FILE=HCAPLUS SPE=ON  ABB=ON  PLU=ON  L18
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L21          61 SEA FILE=HCAPLUS SPE=ON  ABB=ON  PLU=ON  L20 AND (1840-2006
                )/PRY,AY,PY
L22          55 SEA FILE=HCAPLUS SPE=ON  ABB=ON  PLU=ON  L21 NOT L19
L23          28 SEA FILE=HCAPLUS SPE=ON  ABB=ON  PLU=ON  L22 AND RACT/RL


=> d l23 1-28 ibib ed abs hitstr hitind

L23  ANSWER 1 OF 28  HCAPLUS  COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER:         2008:1383636  HCAPLUS  Full-text
DOCUMENT NUMBER:          149:555126
TITLE:                    The catalyzed a-hydroxyalkylation and
                          a-aminoalkylation of activated olefins (the
                          Morita-Baylis-Hillman reaction)
AUTHOR(S):                Ciganek, Engelbert
CORPORATE SOURCE:         Kennett Square, PA, USA
SOURCE:                   Organic Reactions (Hoboken, NJ, United States) (
                          1997), 51, No pp. given
                          CODEN: ORHNBA
                          URL:
                          http://www3.interscience.wiley.com/cgi-bin/mrwhome
                          /107610747/HOME
PUBLISHER:                John Wiley & Sons, Inc.
DOCUMENT TYPE:            Journal; General Review; (online computer file)
LANGUAGE:                 English
OTHER SOURCE(S):          CASREACT 149:555126
ED   Entered STN:  19 Nov 2008
AB    A review of the article The catalyzed a-hydroxyalkylation and a-
      aminoalkylation of activated olefins (the Morita-Baylis-Hillman reaction).
IT   127391-80-4P   127391-81-5P
        (The Catalyzed alpha-Hydroxyalkylation and alpha-Aminoalkylation of
        Activated Olefins (The Morita-Baylis-Hillman Reaction))
RN   127391-80-4  HCAPLUS
CN   2-Propenoic acid, 2,2'-methylenebis(oxymethylene)bis-, 1,1'-dibutyl
     ester  (CA INDEX NAME)
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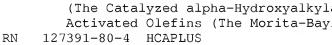

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RN   127391-81-5  HCAPLUS
CN   4,6,8,12-Tetraoxahexadecanoic acid, 2,10-bis(methylene)-11-oxo-, butyl
     ester  (CA INDEX NAME)
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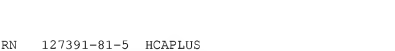

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CC   21-0 (General Organic Chemistry)
IT   75-07-0P, Acetaldehyde, preparation   738-70-5P   925-60-0P
     1572-52-7P   2141-59-5P   2274-11-5P   3070-68-6P   5216-84-2P
     5621-43-2P   5621-44-3P   7176-67-2P   13544-11-1P   14045-44-4P
     15484-46-5P   16493-96-2P   18020-64-9P   18052-21-6P   19362-93-7P
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(The Catalyzed alpha-Hydroxyalkylation and alpha-Aminoalkylation of Activated Olefins (The Morita-Baylis-Hillman Reaction))

IT 127391-81-5P 127489-24-1P 127870-75-1P 127870-76-2P
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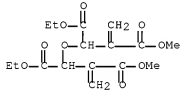
169899-57-4P

(The Catalyzed alpha-Hydroxyalkylation and alpha-Aminoalkylation of Activated Olefins (The Morita-Baylis-Hillman Reaction))

L23 ANSWER 2 OF 28 HCAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 2006:204154 HCAPLUS Full-text
DOCUMENT NUMBER: 146:142958

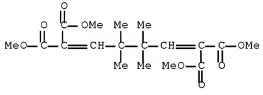
TITLE: Straightforward Synthesis of (R,S)-β-Methyleneaspartic Acid, an Inhibitor of Glutamate-Aspartate Transaminase
AUTHOR(S): Galeazzi, Roberta; Martelli, Gianluca; Orena, Mario; Rinaldi, Samuele
CORPORATE SOURCE: Dipartimento di Scienze dei Materiali e della Terra, Universita Politecnica delle Marche, Ancona, 60121, Italy
SOURCE: Monatshefte fuer Chemie (2006), 137(3), 357-363
CODEN: MOCMB7; ISSN: 0026-9247
PUBLISHER: Springer Wien
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 146:142958
ED Entered STN: 07 Mar 2006
AB A Baylis-Hillman adduct of Me acrylate and Et glyoxalate was converted into the trichloroacetimidate that in the presence of DABCO rearranged to the corresponding trichloroacetamide. Eventually, hydrolysis under acidic conditions, led to the hydrochloride of racemic β-methyleneaspartic acid.
IT 919520-82-4P
(preparation of methyleneaspartic acid, an inhibitor of glutamate-aspartate transaminase)
RN 919520-82-4 HCAPLUS
CN Butanedioic acid, 2,2'-oxybis[3-methylene-, 1,1'-diethyl 4,4'-dimethyl ester (CA INDEX NAME)



CC 34-2 (Amino Acids, Peptides, and Proteins)
Section cross-reference(s): 7
IT 594-65-0P 73650-41-6P 856410-04-3P 919520-82-4P 919520-97-1P 919521-02-1P
(preparation of methyleneaspartic acid, an inhibitor of glutamate-aspartate transaminase)
OS.CITING REF COUNT: 2 THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD (2 CITINGS)
REFERENCE COUNT: 29 THERE ARE 29 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L23 ANSWER 3 OF 28 HCAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 2005:436093 HCAPLUS Full-text
DOCUMENT NUMBER: 143:96996
TITLE: Novel Oxa-di-π-methane and Norrish Type I Reactions in the S2 (π,π*) Excited State of a Series of β,γ-Unsaturated Ketones
AUTHOR(S): Armesto, Diego; Ortiz, Maria J.; Agarrabeitia, Antonia R.; Martin-Fontecha, Mar
CORPORATE SOURCE: Departamento de Quimica Organica I, Facultad de

Ciencias Quimicas, Universidad Complutense, Madrid, 28040, Spain
SOURCE: Organic Letters (2005), 7(13), 2687-2690
CODEN: ORLEF7; ISSN: 1523-7060
PUBLISHER: American Chemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 143:96996
ED Entered STN: 24 May 2005
AB β,γ-UNsatd. Me ketones with electron-withdrawing groups at the γ-position of the ene moiety undergo ODPM rearrangements and Norrish type I reactions on direct irradiation at 254 nm. The results are consistent with the involvement of alkene S2 (π,π*) as reactive excited states in these processes.
IT 856216-15-4P
(novel oxa-di-π-methane and Norrish Type I reactions in the S2 (π,π*) excited state of β,γ-unsatd. ketones and substituent effects thereon)
RN 856216-15-4 HCAPLUS
CN 2,6-Octadienetetracarboxylic acid, 4,4,5,5-tetramethyl-, 2,2,7,8-tetramethyl ester (CA INDEX NAME)



CC 22-6 (Physical Organic Chemistry)
Section cross-reference(s): 74
IT 64976-73-4P 66628-92-0P 134197-90-3P 197772-06-8P 856216-05-2P
856216-06-3P 856216-07-4P 856216-08-5P 856216-09-6P
856216-10-9P 856216-11-0P 856216-12-1P 856216-13-2P
856216-14-3P 856216-15-4P 856216-16-5P 856216-17-6P
856216-18-7P 856216-19-8P 856216-20-1P 856216-21-2P
(novel oxa-di-π-methane and Norrish Type I reactions in the S2 (π,π*) excited state of β,γ-unsatd. ketones and substituent effects thereon)
OS.CITING REF COUNT: 9 THERE ARE 9 CAPLUS RECORDS THAT CITE THIS RECORD (9 CITINGS)
REFERENCE COUNT: 16 THERE ARE 16 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L23 ANSWER 4 OF 28 HCAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 2003:173063 HCAPLUS Full-text
DOCUMENT NUMBER: 138:229268
TITLE: Plate-making method of printing plate
INVENTOR(S): Kunita, Kazuto
PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan
SOURCE: Eur. Pat. Appl., 148 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1288720	A1	20030305	EP 2002-19103 <--	20020829
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK				
JP 2003066601	A	20030305	JP 2001-259725 <--	20010829
JP 4235375	B2	20090311		
JP 2003064130	A	20030305	JP 2001-259726 <--	20010829
US 20030190554	A1	20031009	US 2002-230088 <--	20020829
US 6875557	B2	20050405		
PRIORITY APPLN. INFO.:			JP 2001-259725 A <--	20010829
			JP 2001-259726 A <--	20010829

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

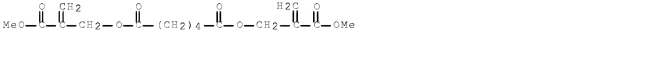
ED Entered STN: 07 Mar 2003

AB A plate-making method of a printing plate comprises exposing a printing plate precursor having a photosensitive layer comprising a photopolymerizable composition containing (1) a crosslinking agent having two ethylenic polymerizable groups and (2) a crosslinking agent having three or more ethylenic polymerizable groups, and development processing the exposed printing plate precursor with an alkali developer having a pH of ≤ 12.5.

IT 333305-85-4P
(photopolymerizable composition for plate-making method of printing plate containing)

RN 333305-85-4 HCAPLUS

CN Hexanedioic acid, 1,6-bis[2-(methoxycarbonyl)-2-propen-1-yl] ester (CA INDEX NAME)



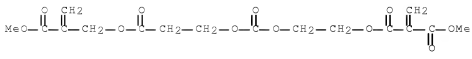
IT 500769-95-9 500770-16-1 500773-31-9
(photopolymerizable composition for plate-making method of printing plate containing)

RN 500769-95-9 HCAPLUS

CN 4,7,9,13-Tetraoxahexadecanedioic acid, 2,15-bis(methylene)-3,8,12-trioxo-, dimethyl ester, polymer with 2-[[3-[(1-oxo-2-propenyl)oxy]-2,2-bis[[(1-oxo-2-propenyl)oxy]methyl]propoxy]methyl]-2-[[(1-oxo-2-propenyl)oxy]methyl]-1,3-propanediyl di-2-propenoate (9CI) (CA INDEX NAME)

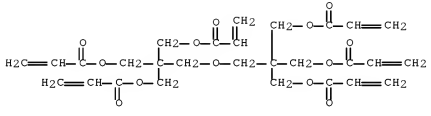
CM 1

CRN 500769-94-8
CMF C16 H20 O11

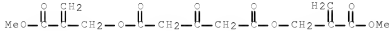


CM 2

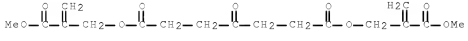
CRN 29570-58-9
CMF C28 H34 O13



RN 500770-16-1 HCAPLUS
CN Pentanedioic acid, 3-oxo-, 1,5-bis[2-(methoxycarbonyl)-2-propen-1-yl] ester (CA INDEX NAME)



RN 500773-31-9 HCAPLUS
CN Heptanedioic acid, 4-oxo-, 1,7-bis[2-(methoxycarbonyl)-2-propen-1-yl] ester (CA INDEX NAME)



IC ICM G03F007-027
ICS G03F007-32; B41C001-10
CC 74-6 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)
Section cross-reference(s): 38
IT 28697-96-3P 51248-94-3P 127261-89-6P 333305-85-4P
333305-99-0P 333306-09-5P 500769-99-3P 500770-03-6P
500770-05-8P 500770-09-2P 500770-11-6P
(photopolymerizable composition for plate-making method of printing plate containing)
IT 29570-58-9 80937-22-0 124517-64-2 500769-71-1 500769-72-2

500769-73-3 500769-74-4 500769-75-5 500769-77-7 500769-78-8
500769-80-2 500769-82-4 500769-83-5 500769-85-7 500769-87-9
500769-88-0 500769-89-1 500769-91-5 500769-92-6 500769-93-7
500769-95-9 500769-97-1 500769-98-2 500770-00-3
500770-01-4 500770-04-7 500770-06-9 500770-07-0 500770-08-1
500770-10-5 500770-13-8 500770-16-1 500770-17-2
500773-31-9

(photopolymerizable composition for plate-making method of printing plate containing)

OS.CITING REF COUNT: 5 THERE ARE 5 CAPLUS RECORDS THAT CITE THIS RECORD (5 CITINGS)

REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L23 ANSWER 5 OF 28 HCAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 2003:147958 HCAPLUS Full-text
DOCUMENT NUMBER: 138:170651
TITLE: Production method of α-heteromethacrylates and α-ammonium methacrylates
INVENTOR(S): Kunita, Kazuto
PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 41 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2003055305	A	20030226	JP 2001-239282 <--	20010807
PRIORITY APPLN. INFO.:			JP 2001-239282 <--	20010807

OTHER SOURCE(S): MARPAT 138:170651
ED Entered STN: 27 Feb 2003
AB α-Ammonium methacrylates CH2:CQ1(CRaRbN+R1R2R3)·hal- are used to prepare α-heteromethacrylates [I, CH2:CQ1(CRaRbX1)] where Q1 = CN or COX2, X1, X2 = substituted oxy, substituted thio, or substituted amino, Ra, Rb = H or organic residue, R1-3 = organic residue (R1-3 may be bonded together to form a ring), and hal = halogen. Thus,methyl α-hydroxymethacrylate obtained from Me acrylate and formalin was reacted with PBr3 to give Me α-bromomethacrylate, which was reacted with triethylamine to give Me α-triethylammonium methacrylate with over all yield 50%, which was reacted with benzyl alc. to give I (Ra, Rb = H, X1 = OCH2Ph, Q1 = COOCH3) with yield 80%.
IT 333305-85-4P
(preparation of α-heteromethacrylates from α-ammonium methacrylates)
RN 333305-85-4 HCAPLUS
CN Hexanedioic acid, 1,6-bis[2-(methoxycarbonyl)-2-propen-1-yl] ester (CA INDEX NAME)

IC ICM C07C067-31
ICS C07B041-06; C07B043-04; C07B045-06; C07C069-73; C07C069-734; C07C069-75; C07C069-767; C07C219-08; C07C227-06; C07C229-30; C07C231-08; C07C233-47; C07C253-30; C07C255-15; C07C303-22; C07C309-12; C07C309-65; C07C309-66; C07C309-73
CC 35-2 (Chemistry of Synthetic High Polymers)
Section cross-reference(s): 23
IT 4432-44-4DP, Me or Et ester 9010-92-8DP, Methacrylic acid-styrene copolymer, reaction products with α-ammonium methacrylate compds. 25087-26-7DP, Polymethacrylic acid, reaction products with α-ammonium methacrylate compds. 30982-08-2P 153522-38-4P 154201-91-9P 333305-69-4P 333305-85-4P 333306-09-5P 407582-28-9P 471266-79-2P 497249-98-6P 497250-05-2P
(preparation of α-heteromethacrylates from α-ammonium methacrylates)

L23 ANSWER 6 OF 28 HCAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 2003:27946 HCAPLUS Full-text
DOCUMENT NUMBER: 138:288012
TITLE: Synthesis and photopolymerization kinetics of new flexible diacrylate and dimethacrylate crosslinkers based on C18 diacid
AUTHOR(S): Avci, Duygu; Nobles, Jennifer; Mathias, Lon J.
CORPORATE SOURCE: Department of Chemistry, Bogazici University, Bebek, tanbul, 80815, Turk.
SOURCE: Polymer (2003), 44(4), 963-968
CODEN: POLMAG; ISSN: 0032-3861
PUBLISHER: Elsevier Science Ltd.
DOCUMENT TYPE: Journal
LANGUAGE: English
ED Entered STN: 13 Jan 2003
AB A series of new di(meth)acrylate monomers was synthesized by reacting Me α-hydroxymethylacrylate (MHMA), Et α-hydroxymethylacrylate (EHMA), hydroxyethyl acrylate (HEA), and hydroxyethyl methacrylate (HEMA) with α,ω-C18 diacid chloride. Differential scanning calorimetry was used to study the photopolymn. behavior and reaction kinetics of the synthesized monomers subjected to photoinitiated polymerization The polymerization rates, conversions and kinetic consts. for propagation and termination were determined for each of the monomers. The maximum rate of polymns. of the diacrylate monomers was higher than that of the dimethacrylate monomers and followed the order: HDDA (1,6-hexanediol diacrylate) > HEA-C18 > EHMA-C18 .apprx. HEMA-C18 > MHMA-C18. The total conversions obtained were 78, 75, 72, 64, and 69% for MHMA-C18, EHMA-C18, HEMA-C18, HEA-C18, and HDDA, resp., indicating comparable or higher conversions for methacrylates despite their lower rates of polymerization Propagation and termination mechanisms of the monomers were investigated by plotting propagation and termination rate consts. as a function of conversion.
IT 504439-60-5P 504439-61-6P
(monomer; synthesis and photopolymn. kinetics of new flexible diacrylate and dimethacrylate crosslinkers based on octadecanedicaroxylic acid)
RN 504439-60-5 HCAPLUS
CN Octadecanedioic acid, 1,18-bis[2-(methoxycarbonyl)-2-propen-1-yl] ester (CA INDEX NAME)

RN 504439-61-6 HCAPLUS
CN Octadecanedioic acid, 1,18-bis[2-(ethoxycarbonyl)-2-propen-1-yl] ester (CA INDEX NAME)

IT 504439-64-9P 504439-65-0P
(synthesis and photopolymn. of new flexible diacrylate and dimethacrylate crosslinkers based on octadecanedicaroxylic acid)
RN 504439-64-9 HCAPLUS
CN Octadecanedioic acid, bis[2-(methoxycarbonyl)-2-propenyl] ester, homopolymer (9CI) (CA INDEX NAME)

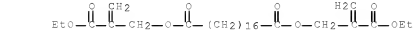
CM 1

CRN 504439-60-5
CMF C28 H46 O8

RN 504439-65-0 HCAPLUS
CN Octadecanedioic acid, bis[2-(ethoxycarbonyl)-2-propenyl] ester, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 504439-61-6
CMF C30 H50 O8



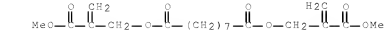
CC 35-3 (Chemistry of Synthetic High Polymers)
IT 504439-58-1P 504439-59-2P 504439-60-5P
504439-61-6P
(monomer; synthesis and photopolymn. kinetics of new flexible diacrylate and dimethacrylate crosslinkers based on octadecanedicaroxylic acid)
IT 504439-62-7P 504439-63-8P 504439-64-9P

504439-65-0P
(synthesis and photopolymn. of new flexible diacrylate and dimethacrylate crosslinkers based on octadecanedicaroxylic acid)
OS.CITING REF COUNT: 21 THERE ARE 21 CAPLUS RECORDS THAT CITE THIS RECORD (21 CITINGS)
REFERENCE COUNT: 24 THERE ARE 24 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

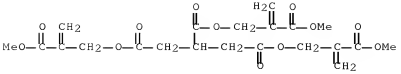
L23 ANSWER 7 OF 28 HCAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 2003:15796 HCAPLUS Full-text
DOCUMENT NUMBER: 138:80764
TITLE: Photothermographic printing materials with improved photopolymerization sensitivity and good storage stability
INVENTOR(S): Arai, Kinzo; Kunita, Kazuto; Fukushige, Yuichi
PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 57 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2003005378	A	20030108	JP 2001-191748 <--	20010625
PRIORITY APPLN. INFO.:			JP 2001-191748 <--	20010625

OTHER SOURCE(S): MARPAT 138:80764
ED Entered STN: 08 Jan 2003
AB The printing material has on a support a recording layer containing photopolymerizable compns. containing compds. represented by CH2:C(COX2)CRaRbX1 (X1, X2 = hetero atom, halo; Ra, Rb = H, halo, CN, organic residue; X1 and X2, Ra and Rb, or X1 and Ra or Rb may be bonded to each other and form ring structure), color-forming components A, and color-forming components B which react with A to form color. Preferably, A is an electron-donating dye precursor and B is an electron-accepting compds. More preferably, A is a diazonium salt compound and B is a coupler or A is a protected colorant (or leuco dye) and B is a deprotecting agent. Inhibition of photoradical polymerization by O has been suppressed.
IT 441793-44-8 460352-39-0 482340-80-7
(photothermog. printing materials with improved photopolymn. sensitivity and good storage stability)
RN 441793-44-8 HCAPLUS
CN Nonanedioic acid, 1,9-bis[2-(methoxycarbonyl)-2-propen-1-yl] ester (CA INDEX NAME)



RN 460352-39-0 HCAPLUS
CN 1,2,3-Propanetricarboxylic acid, 1,2,3-tris[2-(methoxycarbonyl)-2-propen-1-yl] ester (CA INDEX NAME)



RN 482340-80-7 HCAPLUS
CN Pentanedioic acid, 1,5-bis[2-(methoxycarbonyl)-2-propen-1-yl] ester (CA INDEX NAME)

IC ICM G03F007-26
ICS G03C001-72
CC 74-7 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)
IT 143129-14-0 441793-44-8 460352-39-0
482340-80-7
(photothermog. printing materials with improved photopolymn. sensitivity and good storage stability)

L23 ANSWER 8 OF 28 HCAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 2002:714261 HCAPLUS Full-text
DOCUMENT NUMBER: 137:255344
TITLE: Radical polymerizable compounds for image forming materials
INVENTOR(S): Kunita, Kazuto
PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan
SOURCE: Eur. Pat. Appl., 35 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1241528	A2	20020918	EP 2002-5350 <--	20020314
EP 1241528	A3	20040102		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
JP 2002275129	A	20020925	JP 2001-72433 <--	20010314
CN 1377900	A	20021106	CN 2002-105636 <--	20020314
CN 1250574	C	20060412		
US 20030008996	A1	20030109	US 2002-96879 <--	20020314
US 6787622	B2	20040907		

PRIORITY APPLN. INFO.: JP 2001-72433 A 20010314
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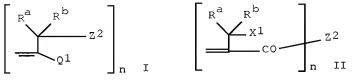
ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT
ED Entered STN: 20 Sep 2002
GI

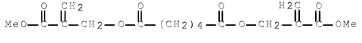


AB A radical polymerizable compound comprises a structure represented by: RaRbX3C-C(=C)Q1, I or II (X3 = heterocyclic group that is connected through a hetero atom included in it; Q1 = CN,COX2; X2 = hydroxy group, substituted oxy group, substituted thio group, amino group, a substituted amino group, a heterocyclic group that is connected through a hetero atom included in it or a halogen atom; Ra,b= H, halogen atom, cyano group, organic residue; X1 represents a substituted oxy group, a, substituted amino group, a heterocyclic group that is connected through a hetero atom included therein or a halogen atom; Z1 and Z2 = n-valent connecting group having at least 6 carbon atoms, in which the n's connecting parts are all hetero atoms; Ra and Rb, X1 and Ra or Rb, X3 and Ra or Rb, or Q1 and Ra or Rb may combine with each other to form a cyclic structure; and n = 2-6). The present invention provides a radical polymerization compound for use in a photo-radical polymerization composition satisfying both high sensitivity and excellent preservation stability, which is promising in image forming techniques due to the highest sensitivity.

IT 333305-85-4P 460352-41-4P
(radical polymerizable compds. for image forming materials)

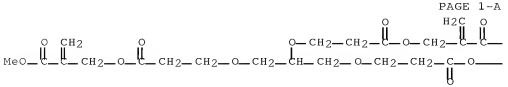
RN 333305-85-4 HCAPLUS

CN Hexanedioic acid, 1,6-bis[2-(methoxycarbonyl)-2-propen-1-yl] ester (CA INDEX NAME)

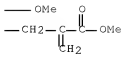


RN 460352-41-4 HCAPLUS

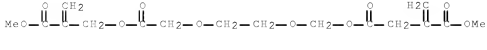
CN 4,8,12,16-Tetraoxanonadecanedioic acid, 10-[3-[[2-(methoxycarbonyl)-2-propen-1-yl]oxy]-3-oxopropoxy]-2,18-bis(methylene)-5,15-dioxo-, 1,19-dimethyl ester (CA INDEX NAME)



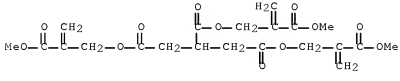
PAGE 1-B



IT 460352-37-8P 460352-39-0P 460352-40-3P
(radical polymerizable compds. for image forming materials)
RN 460352-37-8 HCAPLUS
CN 4,7,10,12-Tetraoxahexadecanedioic acid,
2,15-bis(methylene)-5,13-dioxo-, 1,16-dimethyl ester (CA INDEX NAME)

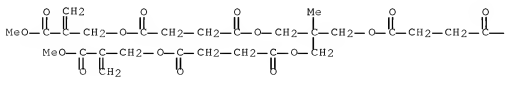


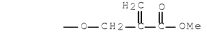
RN 460352-39-0 HCAPLUS
CN 1,2,3-Propanetricarboxylic acid,
1,2,3-tris[2-(methoxycarbonyl)-2-propen-1-yl] ester (CA INDEX NAME)



RN 460352-40-3 HCAPLUS
CN 4,9,13,18-Tetraoxaheneicosanedioic acid,
11-[[4-[[2-(methoxycarbonyl)-2-propen-1-yl]oxy]-1,4-
dioxobutoxy]methyl]-11-methyl-2,20-bis(methylene)-5,8,14,17-tetraoxo-,
1,21-dimethyl ester (CA INDEX NAME)

PAGE 1-A





IC ICM G03F007-027
ICS C07D277-74; C07C255-15; C07C271-20; C07C271-28; C07C069-73
CC 74-5 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)
IT 333305-69-4P 333305-85-4P 460352-41-4P
(radical polymerizable compds. for image forming materials)
IT 460352-34-5P 460352-35-6P 460352-36-7P 460352-37-8P
460352-38-9P 460352-39-0P 460352-40-3P
(radical polymerizable compds. for image forming materials)
OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)
REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

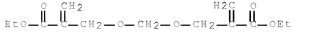
L23 ANSWER 9 OF 28 HCAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 2001:662144 HCAPLUS Full-text
DOCUMENT NUMBER: 135:358506
TITLE: Syntheses and evaluation of photopolymerized fluorinated acrylates as potential non-wettable coatings
AUTHOR(S): Shemper, Bianca S.; Mathias, Lon J.
CORPORATE SOURCE: Department of Polymer Science, University of Southern Mississippi, Hattiesburg, MS, 39406-0076, USA
SOURCE: Polymer Preprints (American Chemical Society, Division of Polymer Chemistry) (2001), 42(2), 461-462
CODEN: ACPPAY; ISSN: 0032-3934
PUBLISHER: American Chemical Society, Division of Polymer Chemistry
DOCUMENT TYPE: Journal; (computer optical disk)
LANGUAGE: English
ED Entered STN: 11 Sep 2001
AB A perfluoroalkyl ether-substituted hydroxymethacrylic acid was prepared and its photopolymn. was studied. A perfluoroalkyl ether-substituted dihydroxymethacrylic acid, which serves as a crosslinker for the polymns., was also prepared These compds. are potential low-surface energy polymeric materials.
IT 372510-06-0P
(preparation and hydrolysis of)
RN 372510-06-0 HCAPLUS
CN 2-Propenoic acid, 2,2'-[(2,2,3,3,4,4,5,5-octafluoro-1,6-hexanediyl)bis(oxymethylene)]bis-, bis(1,1-dimethylethyl) ester (9CI) (CA INDEX NAME)

CC 37-3 (Plastics Manufacture and Processing)
Section cross-reference(s): 42
IT 372510-05-9P 372510-06-0P
(preparation and hydrolysis of)
OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)
REFERENCE COUNT: 12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L23 ANSWER 10 OF 28 HCAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 1997:443341 HCAPLUS Full-text
DOCUMENT NUMBER: 127:65502
ORIGINAL REFERENCE NO.: 127:12526h,12527a
TITLE: Process for preparation of bridging vinyl compounds by reacting alcohols with carbonyl compounds
INVENTOR(S): Yurugi, Keiji; Nakagawa, Koichi; Kita, Yuichi
PATENT ASSIGNEE(S): Nippon Shokubai Kagaku Kogyo Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 10 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 09157204	A	19970617	JP 1995-324518 <--	19951213
PRIORITY APPLN. INFO.:			JP 1995-324518 <--	19951213

OTHER SOURCE(S): CASREACT 127:65502
ED Entered STN: 17 Jul 1997
AB Characterized is a process for preparation of the title compds. R15OCR2R3OR16 (I; R15, R16 = vinyl-containing radical; R2, R3 = H, organic radical) by reacting R1OH (R1 = vinyl-containing radical) with carbonyl compds. R2COR3 (R2, R3 = same as above) in the presence of antioxidants. I are useful monomers in the production of bridging polymers. Thus, CH2:C(CH2OH)CO2Et was reacted with paraformaldehyde in the presence of methoxyhydroquinone, p-TsOH, and 2,2'-oxamidebis-[ethyl 3-(3,5-di-tert-butyl-4- hydroxyphenyl)propionate] at 90° for 3 h to give 72% di-Et 4,6-dioxy-2,8-dimethylene-1,9-nonanedicarboxylate with 91% selectivity.
IT 132750-40-4P
(process for preparation of bridging vinyl compds. by reacting alcs. with carbonyl compds.)
RN 132750-40-4 HCAPLUS
CN 2-Propenoic acid, 2,2'-[methylenebis(oxymethylene)]bis-, diethyl ester (9CI) (CA INDEX NAME)



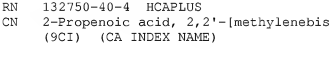
IC ICM C07C043-303
ICS C07C041-48

CC 23-9 (Aliphatic Compounds)
Section cross-reference(s): 35
IT 132750-40-4P
(process for preparation of bridging vinyl compds. by reacting alcs. with carbonyl compds.)

L23 ANSWER 11 OF 28 HCAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 1997:429595 HCAPLUS Full-text
DOCUMENT NUMBER: 127:50286
ORIGINAL REFERENCE NO.: 127:9593a,9596a
TITLE: Process for preparation of bridging vinyl compounds by reacting alcohols with acetals
INVENTOR(S): Yurugi, Keiji; Nakagawa, Koichi; Kita, Yuichi
PATENT ASSIGNEE(S): Nippon Shokubai Kagaku Kogyo Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 14 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

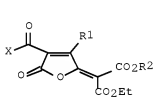
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 09157203	A	19970617	JP 1995-324514 <--	19951213
PRIORITY APPLN. INFO.:			JP 1995-324514 <--	19951213

OTHER SOURCE(S): CASREACT 127:50286
ED Entered STN: 11 Jul 1997
AB Characterized is a process for preparation of the title compds. R15OCR2R3OR16 (I; R15, R16 = vinyl-containing radical; R2, R3 = H, organic radical) by reacting R1OH (R1 = vinyl-containing radical) with acetal R5OCR2R3OR4 (R4, R5 = H, organic radical) in the presence of antioxidants. I are useful materials in the production of bridging polymers. Thus, CH2:C(CH2OH)CO2Et was reacted with (EtO)2CH2 in the presence of methoxyhydroquinone, p-TsOH, and 2,2'-oxamidebis-[ethyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate] at 90° for 3 h to give 66% di-Et 4,6-dioxy-2,8-dimethylene-1,9-nonanedicarboxylate with 88% selectivity.
IT 132750-40-4P
(process for preparation of bridging vinyl compds. by reacting alcs. with acetals)
RN 132750-40-4 HCAPLUS
CN 2-Propenoic acid, 2,2'-[methylenebis(oxymethylene)]bis-, diethyl ester (9CI) (CA INDEX NAME)

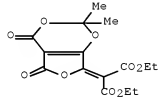


IC ICM C07C043-303
ICS C07C041-48; C07C043-315; C07C067-29; C07C067-31; C07C069-54; C07C069-732; C07C069-734
CC 23-9 (Aliphatic Compounds)
Section cross-reference(s): 35
IT 132750-40-4P
(process for preparation of bridging vinyl compds. by reacting alcs. with acetals)

L23 ANSWER 12 OF 28 HCAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 1995:203161 HCAPLUS Full-text
DOCUMENT NUMBER: 122:31233
ORIGINAL REFERENCE NO.: 122:6167a,6170a
TITLE: Derivatives of oxalyldimalonic acid
AUTHOR(S): Stachel, Hans-Dietrich; Schorp, Matthias; Maier, Ludwig; Dandl, Klaus
CORPORATE SOURCE: Institut Pharmazie Lebensmittelchemie, Universitaet Muenchen, Muenchen, D-80333, Germany
SOURCE: Liebigs Annalen der Chemie (1994), (11), 1121-7
CODEN: LACHDL; ISSN: 0170-2041
PUBLISHER: VCH
DOCUMENT TYPE: Journal
LANGUAGE: German
ED Entered STN: 19 Nov 1994
GI



I



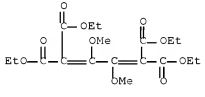
II

AB Starting with furanones and mesoxalic acid esters, the compds. I (R1 = halo, hydroxy, amino, etc.; R2 = H, Et; X = OEt,hydroxy, amino, etc.) were prepared (as monolactones of the title compound). A versatile intermediate is the dioxinone II (a masked acylketene intermediate).

IT 159765-13-6P
(preparation of butadienetetracarboxylate derivative from furanone and mesoxalate)

RN 159765-13-6 HCAPLUS

CN 2,4-Hexadiene-2,2,5,5-tetracarboxylic acid, 3,4-dimethoxy-, 1,2,5,6-tetraethyl ester (CA INDEX NAME)

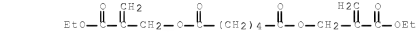


CC 27-6 (Heterocyclic Compounds (One Hetero Atom))
Section cross-reference(s): 28

IT 7294-16-8P 159764-99-5P 159765-00-1P 159765-01-2P 159765-03-4P
159765-05-6P 159765-06-7P 159765-08-9P 159765-10-3P
159765-13-6P 159765-17-0P 159765-19-2P 159765-20-5P

159765-21-6P 159765-22-7P 159765-23-8P 159765-24-9P
(preparation of butadienetetracarboxylate derivative from furanone and mesoxalate)
OS.CITING REF COUNT: 16 THERE ARE 16 CAPLUS RECORDS THAT CITE THIS RECORD (17 CITINGS)

L23 ANSWER 13 OF 28 HCAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 1994:135232 HCAPLUS Full-text
DOCUMENT NUMBER: 120:135232
ORIGINAL REFERENCE NO.: 120:23857a,23860a
TITLE: Poly(α-hydroxymethylacrylates): esterification and crosslinking reactions
AUTHOR(S): Avci, Duygu; Kusefoglu, Selim
CORPORATE SOURCE: Kimya Bolumu, Bogazici Univ., Bebek-Istanbul, Turk.
SOURCE: Kim. Kim. Muhendisligi Semp., 8th (1992), Volume 3, 239-44. Editor(s): Aydin, Adnan. Marmara Univ. Fac. Sci. Lett.: Istanbul, Turk. CODEN: 59AOAY
DOCUMENT TYPE: Conference
LANGUAGE: Turkish
ED Entered STN: 19 Mar 1994
AB Et α-hydroxymethylacrylate (I) was esterified with hexanoyl chloride in 80% yield to give Et (α-hexanoyloxymethyl)acrylate (II) that was polymerized to give a soluble thermoplastic polymer with glass transition at 15-20° and melting transition at 47.5°. Copolymn. of I and II in various monomer ratios gave thermoplastic polymers with solubility enhanced by internal lubrication of the long alkyl pendent group. Copolymers of II with styrene were also prepared Esterification of I with adipoyl chloride gave bisadipoate that can be used as a crosslinking agent. Crosslinked insol. polymers were prepared from bisadipoate with Me methacrylate, styrene, and I.
IT 152013-35-9
(crosslinking agent, for Et hydroxymethylacrylate derivative polymers, preparation of)
RN 152013-35-9 HCAPLUS
CN Hexanedioic acid, 1,6-bis[2-(ethoxycarbonyl)-2-propen-1-yl] ester (CA INDEX NAME)



IT 152013-36-0P 152013-37-1P 152013-39-3P
(preparation and characterization of crosslinked)
RN 152013-36-0 HCAPLUS
CN Hexanedioic acid, bis[2-(ethoxycarbonyl)-2-propenyl] ester, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 152013-35-9
CMF C18 H26 O8

RN 152013-37-1 HCAPLUS
CN Hexanedioic acid, bis[2-(ethoxycarbonyl)-2-propenyl] ester, polymer with methyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 152013-35-9
CMF C18 H26 O8

CM 2

CRN 80-62-6
CMF C5 H8 O2

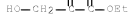
RN 152013-39-3 HCAPLUS
CN Hexanedioic acid, bis[2-(ethoxycarbonyl)-2-propenyl] ester, polymer with ethyl 2-(hydroxymethyl)-2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 152013-35-9
CMF C18 H26 O8

CM 2

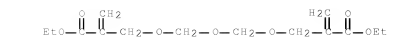
CRN 10029-04-6
CMF C6 H10 O3



CC 35-4 (Chemistry of Synthetic High Polymers)
IT 152013-35-9
(crosslinking agent, for Et hydroxymethylacrylate derivative polymers, preparation of)
IT 152013-36-0P 152013-37-1P 152013-38-2P
152013-39-3P
(preparation and characterization of crosslinked)

L23 ANSWER 14 OF 28 HCAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 1991:164845 HCAPLUS Full-text
DOCUMENT NUMBER: 114:164845
ORIGINAL REFERENCE NO.: 114:27909a,27912a
TITLE: Difunctional and multifunctional monomers capable of cyclopolymerization
AUTHOR(S): Stansbury, J. W.
CORPORATE SOURCE: Polym. Div., Natl. Inst. Stand. Technol., Gaithersburg, MD, 20899, USA
SOURCE: Macromolecules (1991), 24(8), 2029-35
CODEN: MAMOBX; ISSN: 0024-9297
DOCUMENT TYPE: Journal
LANGUAGE: English
ED Entered STN: 03 May 1991
AB The reaction of acrylate esters with paraformaldehyde in presence of diazabicyclo[2.2.2]octane produced novel ether-fused dimethacrylatelike monomers that could undergo cyclopolymn. The influence of the pendent ester functionality on the preparation and polymerization of these monomers was examined While bulky ester groups generally decreased the rate of reaction in monomer preparation, the more hindered monomers polymerized through the available intramol. cyclization pathway with greater efficiency than did monomers without significant steric constraints. Polymns. in solution led to mainly cyclized, soluble polymers. Bulk polymns. provided brittle, crosslinked polymers with high degrees of conversion. Multifunctional oligomers based on the same 1,6-diene substructure were prepared Polymerization of the oligomers produced tough, highly crosslinked polymers.
IT 132750-40-4P 132750-41-5P
(formation of, in di-Et oxybismethacrylate preparation)
RN 132750-40-4 HCAPLUS
CN 2-Propenoic acid, 2,2'-[methylenebis(oxymethylene)]bis-, diethyl ester (9CI) (CA INDEX NAME)

RN 132750-41-5 HCAPLUS
CN 4,6,8,12-Tetraoxatetradecanoic acid, 2,10-bis(methylene)-11-oxo-, ethyl ester (CA INDEX NAME)

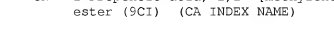


CC 35-2 (Chemistry of Synthetic High Polymers)
IT 121044-63-1P 132750-40-4P 132750-41-5P
(formation of, in di-Et oxybismethacrylate preparation)
OS.CITING REF COUNT: 16 THERE ARE 16 CAPLUS RECORDS THAT CITE THIS RECORD (16 CITINGS)

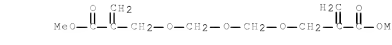
L23 ANSWER 15 OF 28 HCAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 1990:236009 HCAPLUS Full-text
DOCUMENT NUMBER: 112:236009
ORIGINAL REFERENCE NO.: 112:39823a,39826a
TITLE: Acrylate ester ether crosslinking monomers and their preparation
INVENTOR(S): Mathias, Lon J.; Kusefoglu, Selim H.
PATENT ASSIGNEE(S): University of Southern Mississippi, USA
SOURCE: U.S., 6 pp.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 4889948	A	19891226	US 1987-86589 <--	19870818
US 4999410	A	19910312	US 1989-455955 <--	19891222
PRIORITY APPLN. INFO.:			US 1987-86589 A3 <--	19870818

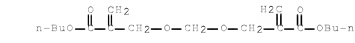
ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT
OTHER SOURCE(S): CASREACT 112:236009
ED Entered STN: 23 Jun 1990
AB Difunctional monomers CH2:CRCH2O(CH2O)nCH2CR:CH2 [R = CO2H, CN, carboxyalkyl, carbonylalkyl, (un)substituted CONH2; n = 0-4] are prepared and can be used as crosslinking agents for thermoplastic polymers. Thus, Me acrylate 1450, paraformaldehyde 180, and DABCO 20 g were mixed and stirred at room temperature for 10 days, producing MeO2CC(:CH2)CH2OH (I) 49, MeO2CC(:CH2)CH2OCH2C(:CH2)CO2Me 22, MeO2CC(:CH2)CH2OCH2OCH2C(:CH2)CO2Me 18, and MeO2CC(:CH2)CH2OCH2OCH2OCH2C(:CH2)CO2Me 6%. Distillation of the reaction mixture (60-65°/0.05 mm) gave 275 g I.
IT 109669-54-7P 109669-55-8P 127391-80-4P 127391-81-5P
(preparation of)
RN 109669-54-7 HCAPLUS
CN 2-Propenoic acid, 2,2'-[methylenebis(oxymethylene)]bis-, dimethyl ester (9CI) (CA INDEX NAME)



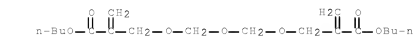
RN 109669-55-8 HCAPLUS
CN 4,6,8,12-Tetraoxatridecanoic acid, 2,10-bis(methylene)-11-oxo-, methyl ester (CA INDEX NAME)



RN 127391-80-4 HCAPLUS
CN 2-Propenoic acid, 2,2'-methylenebis(oxymethylene)bis-, 1,1'-dibutyl ester (CA INDEX NAME)



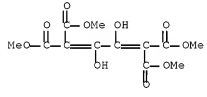
RN 127391-81-5 HCAPLUS
CN 4,6,8,12-Tetraoxahexadecanoic acid, 2,10-bis(methylene)-11-oxo-, butyl ester (CA INDEX NAME)



IC ICM C07C069-73
INCL 560181000
CC 35-2 (Chemistry of Synthetic High Polymers)
Section cross-reference(s): 23
IT 23873-58-7P 109669-54-7P 109669-55-8P
109669-57-0P 111964-98-8P 115597-68-7P 118363-19-2P
127340-00-5DP, partially hydrolyzed 127391-80-4P
127391-81-5P
(preparation of)
OS.CITING REF COUNT: 8 THERE ARE 8 CAPLUS RECORDS THAT CITE THIS RECORD (10 CITINGS)
REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L23 ANSWER 16 OF 28 HCAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 1990:209773 HCAPLUS Full-text
DOCUMENT NUMBER: 112:209773
ORIGINAL REFERENCE NO.: 112:35239a,35242a
TITLE: Adamantanoid chelate complexes. 2. Tetranuclear chelate(4-) ions of divalent metals (manganese, cobalt, nickel) with idealized T-symmetry from spontaneous self-organization
AUTHOR(S): Saalfrank, Rolf W.; Stark, Armin; Bremer, Matthias; Hummel, Hans Ulrich
CORPORATE SOURCE: Inst. Org. Chem., Univ. Erlangen-Nuernberg,

Erlangen, D-8520, Germany
SOURCE: Angewandte Chemie (1990), 102(3), 292-5
CODEN: ANCEAD; ISSN: 0044-8249
DOCUMENT TYPE: Journal
LANGUAGE: German
ED Entered STN: 26 May 1990
AB (NH4)4[M4L6] [H2L = (RO2C)2CHC(O)C(O)CH(CO2R)2 (R = Me); M = Mn, Co, Ni] were prepared by reaction of di-Me malonate and MeLi in THF, followed by addition of MCl2 and oxalyl chloride. Hydrolysis of (NH4)4[Ni4L6] gave (MeO2C)2C:C(OH)C(OH):C(CO2Me)2 (I). The reaction of I with Me3SiBr in the presence of pyridine gave (MeO2C)2C:C(OR1)C(OR1):C(CO2Me)2 (II; R1 = SiMe3) which reacted with BzCl in the presence of ZnBr2 to give II (R1 = Bz). H2L (R = Et) reacted with MCl2 to give (NH4)4[M4L6] (R = Et). (NH4)4[M4L6] (M = Mn, Co; R = Me) are monoclinic, space group C2/c, Z = 4, R = 0.077 and 0.059, Rw = 0.080 and 0.063, resp. [M4L6]4- have an adamantane-type structure.
IT 125568-27-6P
(preparation and reaction of, with trimethylsilyl bromide in presence of pyridine)
RN 125568-27-6 HCAPLUS
CN 2,4-Hexadiene-2,2,5,5-tetracarboxylic acid, 3,4-dihydroxy-, 1,2,5,6-tetramethyl ester (CA INDEX NAME)



CC 78-7 (Inorganic Chemicals and Reactions)
Section cross-reference(s): 23, 75
IT 125568-27-6P
(preparation and reaction of, with trimethylsilyl bromide in presence of pyridine)
OS.CITING REF COUNT: 27 THERE ARE 27 CAPLUS RECORDS THAT CITE THIS RECORD (27 CITINGS)

L23 ANSWER 17 OF 28 HCAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 1988:521477 HCAPLUS Full-text
DOCUMENT NUMBER: 109:121477
ORIGINAL REFERENCE NO.: 109:20061a,20064a
TITLE: Adamantanoid chelate complexes. 1. The first adamantanoid alkaline earth metal chelate complex: synthesis, structure and reactivity
AUTHOR(S): Saalfrank, Rolf W.; Stark, Armin; Peters, Karl; Von Schnering, Hans Georg
CORPORATE SOURCE: Inst. Org. Chem., Univ. Erlangen-Nuernberg, Erlangen, D-8520, Fed. Rep. Ger.
SOURCE: Angewandte Chemie (1988), 100(6), 878-80
CODEN: ANCEAD; ISSN: 0044-8249
DOCUMENT TYPE: Journal
LANGUAGE: German
ED Entered STN: 01 Oct 1988
AB (NH4)4Mg4L6 [I; H2L = (EtO2C)2CHC(O)C(O)CH(CO2Et)2] was prepared from di-Et malonate, MeMgI, and oxalyl chloride in 1:1:0.25 molar ratios. I was

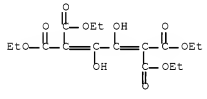
characterized from IR and 1H and 13C NMR spectra. I.Me2C(OH)C(OH)Me2 crystallized in triclinic space group P.hivin.1, with a 1875.6(12), b 2007.2(7), c 1777.1(9) pm, α 103.93(3), β 93.50(5), γ 90.45(4)°, Z = 2, R = 0.144. Each edge of the tetrahedral nucleus of Mg2+ ions is bridged by a tetradentate L2- ion such that each Mg is octahedrally coordinated by 6 O atoms. I was hydrolyzed to the enolic form of H2L which was derivatized by Me3SiBr in presence of pyridine.

IT 114446-12-7P

(preparation and reaction of, with trimethylsilyl bromide)

RN 114446-12-7 HCAPLUS

CN 2,4-Hexadiene-2,2,5,5-tetracarboxylic acid, 3,4-dihydroxy-, 1,2,5,6-tetraethyl ester (CA INDEX NAME)



CC 78-7 (Inorganic Chemicals and Reactions)
Section cross-reference(s): 75

IT 114446-12-7P

(preparation and reaction of, with trimethylsilyl bromide)

OS.CITING REF COUNT: 38 THERE ARE 38 CAPLUS RECORDS THAT CITE THIS RECORD (39 CITINGS)

L23 ANSWER 18 OF 28 HCAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 1987:478279 HCAPLUS Full-text

DOCUMENT NUMBER: 107:78279

ORIGINAL REFERENCE NO.: 107:12901a,12904a

TITLE: New difunctional methacrylate ethers and acetals: readily available derivatives of α-hydroxymethyl acrylates

AUTHOR(S): Mathias, Lon J.; Kusefoglu, Selim H.

CORPORATE SOURCE: Dep. Polym. Sci., Univ. Southern Mississippi, Hattiesburg, MS, 39406-0076, USA

SOURCE: Macromolecules (1987), 20(8), 2039-41
CODEN: MAMOBX; ISSN: 0024-9297

DOCUMENT TYPE: Journal

LANGUAGE: English

ED Entered STN: 05 Sep 1987

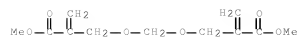
AB The reaction of Me acrylate with paraformaldehyde catalyzed by Dabco yielded Me α-(hydroxymethyl)acrylate (I) as well as the dimethacrylate ether (II) and acetal adducts of I with 1 and 2 HCHO units. II, which could be synthesized from purified I by heating with catalytic amts. of Dabco, underwent radical polymerization in DMSO to give a clear, tough swollen gel. The mechanism of formation of II and the acetals was discussed.

IT 109669-54-7P 109669-55-8P

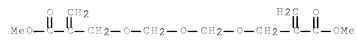
(preparation of)

RN 109669-54-7 HCAPLUS

CN 2-Propenoic acid, 2,2'-[methylenebis(oxymethylene)]bis-, dimethyl ester (9CI) (CA INDEX NAME)

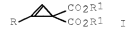


RN 109669-55-8 HCAPLUS
CN 4,6,8,12-Tetraoxatridecanoic acid, 2,10-bis(methylene)-11-oxo-, methyl ester (CA INDEX NAME)

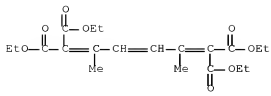


CC 35-2 (Chemistry of Synthetic High Polymers)
Section cross-reference(s): 37
IT 109669-53-6P 109669-54-7P 109669-55-8P
(preparation of)
OS.CITING REF COUNT: 9 THERE ARE 9 CAPLUS RECORDS THAT CITE THIS RECORD (9 CITINGS)

L23 ANSWER 19 OF 28 HCAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 1987:49630 HCAPLUS Full-text
DOCUMENT NUMBER: 106:49630
ORIGINAL REFERENCE NO.: 106:8211a,8214a
TITLE: Synthesis of cyclopropene-3,3-dicarboxylic esters
AUTHOR(S): Paredes, Rodrigo; Barba, Luz E.; Bastos, Holger; Garavito, Diego
CORPORATE SOURCE: Dep. Quim., Univ. Valle, Cali, 25360, Colombia
SOURCE: Revista Latinoamericana de Quimica (1985), 16(2-3), 94-8
CODEN: RLAQA8; ISSN: 0370-5943
DOCUMENT TYPE: Journal
LANGUAGE: English
ED Entered STN: 21 Feb 1987
GI

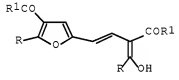


AB Cyclopropenedicarboxylates I (R = H, Me, Et, Ph; R1 = Et, Me) were prepared in up to 48% yield by treating BrCH2CR:C(CO2R1)2 with Me3COK in Me3COH or Me2SO. Only a small amount of I (R = H, R1 = Et) was obtained as BrCH2CH:C(CO2Et)2 was unstable and easily polymerized
IT 106352-28-7P
(preparation of)
RN 106352-28-7 HCAPLUS
CN 2,4,6-Octatrienetetracarboxylic acid, 3,6-dimethyl-, 1,2,7,8-tetraethyl ester (CA INDEX NAME)



CC 24-2 (Alicyclic Compounds)
IT 106352-19-6P 106352-22-1P 106352-23-2P 106352-24-3P
106352-25-4P 106352-26-5P 106352-27-6P 106352-28-7P
106352-29-8P 106352-30-1P 106352-31-2P 106363-31-9P
(preparation of)

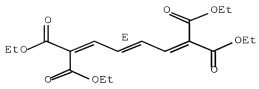
L23 ANSWER 20 OF 28 HCAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 1983:470495 HCAPLUS Full-text
DOCUMENT NUMBER: 99:70495
ORIGINAL REFERENCE NO.: 99:10943a,10946a
TITLE: Studies on reactivity of fumaraldehyde: a facile synthesis of functionalized furans
AUTHOR(S): Antonioletti, R.; DeMico, A.; D'Onofrio, F.; Piancatelli, G.; Castagnino, E.
CORPORATE SOURCE: Cent. Stud. Chim. Sostanze Org. Nat., CNR, Rome, 00185, Italy
SOURCE: Tetrahedron (1983), 39(8), 1355-8
CODEN: TETRAB; ISSN: 0040-4020
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 99:70495
ED Entered STN: 12 May 1984
GI



I

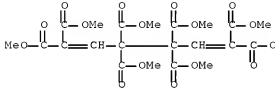
AB Furmaraldehyde, prepared in situ from 2,5-dihydro-2,5-dimethoxyfuran, reacted with RCOCH2COR1 (R = R1 = Me; R = Me, Et, OEt, R1 = OEt) to give the furan I (R = R1 = Me) and RCOC(CO2Et):CHCH:CHCH:C(CO2Et)COR (II). II (R = Me, Et) was cyclized with acid to I (R = Me, Et, R1 = OEt). II (R = OEt) gave a stable complex with Fe(CO)3.
IT 86557-31-5P
(preparation and complexation of, with ion carbony)
RN 86557-31-5 HCAPLUS
CN 1,3,5-Hexatriene-1,1,6,6-tetracarboxylic acid, tetraethyl ester, (E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



CC 27-6 (Heterocyclic Compounds (One Hetero Atom))
IT 86557-31-5P
(preparation and complexation of, with ion carbony)

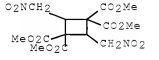
L23 ANSWER 21 OF 28 HCAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 1981:496621 HCAPLUS Full-text
DOCUMENT NUMBER: 95:96621
ORIGINAL REFERENCE NO.: 95:16231a,16234a
TITLE: The cathodic cleavage of ethanetetracarboxylate esters
AUTHOR(S): White, Donald A.; Wagenknecht, John H.
CORPORATE SOURCE: Corporate Res., Monsanto Co., St. Louis, MO, 63166, USA
SOURCE: Journal of the Electrochemical Society (1981), 128(7), 1470-2
CODEN: JESOAN; ISSN: 0013-4651
DOCUMENT TYPE: Journal
LANGUAGE: English
ED Entered STN: 12 May 1984
AB The electrochem. reduction of tetra-Me ethane-1,1,2,2-tetracarboxylate to di-Me propanedioate (di-Me malonate) and the similar cleavage of some substituted and some cyclic analogs are reported.
IT 34494-19-4
(electrochem. reduction of)
RN 34494-19-4 HCAPLUS
CN 2,6-Octadiene-2,2,4,4,5,5,7,7-octacarboxylic acid, 2,2,4,4,5,5,7,8-octamethyl ester (CA INDEX NAME)



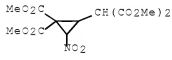
CC 22-5 (Physical Organic Chemistry)
IT 5464-22-2 7605-66-5 34494-19-4 64374-98-7 64374-99-8
(electrochem. reduction of)
OS.CITING REF COUNT: 3 THERE ARE 3 CAPLUS RECORDS THAT CITE THIS RECORD (4 CITINGS)

L23 ANSWER 22 OF 28 HCAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 1981:139131 HCAPLUS Full-text
DOCUMENT NUMBER: 94:139131
ORIGINAL REFERENCE NO.: 94:22773a,22776a

TITLE: Reaction of chloro-substituted nitroethylenes with a malonate
AUTHOR(S): Buevich, V. A.; Deiko, L. I.; Volynskii, V. E.
CORPORATE SOURCE: Leningr. Pedagog. Inst., Leningrad, USSR
SOURCE: Zhurnal Organicheskoi Khimii (1980), 16(11), 2399-403
CODEN: ZORKAE; ISSN: 0514-7492
DOCUMENT TYPE: Journal
LANGUAGE: Russian
OTHER SOURCE(S): CASREACT 94:139131
ED Entered STN: 12 May 1984
GI

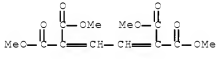


I



II

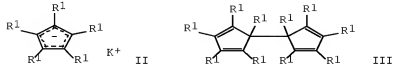
AB ClCH:CHNO2 reacted with CH2(CO2Et)2 in MeOH-MeONa to give (MeO2C)2C:CHCH:N(O)ONa, which on attempted isolation gave the dimer I. ClCH:C(NO2)Cl and CH2(CO2Et)2 gave II, whereas CCl2:CHNO2 gave O2NCH2C[CH(CO2Me)2]:C(CO2Me).
IT 77075-01-5P
(preparation of)
RN 77075-01-5 HCAPLUS
CN 2,4-Hexadiene-2,2,5,5-tetracarboxylic acid, 1,2,5,6-tetramethyl ester (CA INDEX NAME)



CC 23-4 (Aliphatic Compounds)
Section cross-reference(s): 24
IT 99-14-9P 77074-99-8P 77075-00-4P 77075-01-5P
(preparation of)

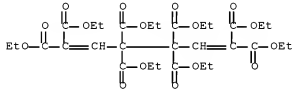
L23 ANSWER 23 OF 28 HCAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 1979:103469 HCAPLUS Full-text
DOCUMENT NUMBER: 90:103469
ORIGINAL REFERENCE NO.: 90:16331a,16334a
TITLE: On the use of ceric salts as coupling agents; Part 1
AUTHOR(S): Galakatos, Nicholas G.; Hancock, John E. H.; Morgan, Olwen, M.; Roberts, Michael R.; Wallace, Jeffrey K.
CORPORATE SOURCE: Dep. Chem., Reed Coll., Portland, OR, USA
SOURCE: Synthesis (1978), (6), 472-4
CODEN: SYNTBF; ISSN: 0039-7881

DOCUMENT TYPE: Journal
LANGUAGE: English
ED Entered STN: 12 May 1984
GI



II III

AB R2C:CHCR2- Na+ (R = CO2Et)(I) or II (R1 = CO2Me) underwent coupling in aqueous solns. in the presence of Ce(NH4)2(NO3)6 to give >97% R2C:CHCR2CR2CH:CR2 and 84% III, resp. I preparation by stirring di-Et malonate in EtONa/EtOH and then adding HCC13 gives off CO (caution!).
IT 60065-39-6P
(preparation of)
RN 60065-39-6 HCAPLUS
CN 2,6-Octadiene-2,2,4,4,5,5,7,7-octacarboxylic acid, 2,2,4,4,5,5,7,8-octaethyl ester (CA INDEX NAME)



CC 24-4 (Alicyclic Compounds)
Section cross-reference(s): 23
IT 60065-39-6P 67341-82-6P
(preparation of)

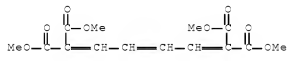
L23 ANSWER 24 OF 28 HCAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 1977:422324 HCAPLUS Full-text
DOCUMENT NUMBER: 87:22324
ORIGINAL REFERENCE NO.: 87:3521a,3524a
TITLE: Reactions with nitroenamines, XV. Oxidation of aci-nitro compounds to olefinic dimers by silver ions
AUTHOR(S): Severin, Theodor; Braeutigam, Irmgard; Braeutigam, Karl Heinz
CORPORATE SOURCE: Inst. Pharm. Lebensmittelchem., Univ. Muenchen, Munich, Fed. Rep. Ger.
SOURCE: Chemische Berichte (1977), 110(5), 1669-73
CODEN: CHBEAM; ISSN: 0009-2940
DOCUMENT TYPE: Journal
LANGUAGE: German
ED Entered STN: 12 May 1984

AB Thermal degradation of the Ag salts of aci-nitropropenes RR1C:CHCH:N(O)OH [R = R1 = MeO2C or EtO2C; R, R1 = EtO2C, MeCO; H, MeCO; Me, EtCO; H, (MeO)2CHCO] in boiling MeCN gave the hexatrienes RR1C:CHCH:CHCRR2.

IT 63255-79-8P
(preparation and hydrogenation of)

RN 63255-79-8 HCAPLUS

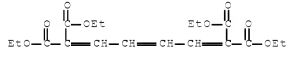
CN 2,4,6-Octatrienetetracarboxylic acid, 1,2,7,8-tetramethyl ester (CA INDEX NAME)



IT 63255-80-1P
(preparation of)

RN 63255-80-1 HCAPLUS

CN 2,4,6-Octatrienetetracarboxylic acid, 1,2,7,7-tetraethyl ester (CA INDEX NAME)



CC 23-17 (Aliphatic Compounds)

IT 63255-79-8P 63255-82-3P
(preparation and hydrogenation of)

IT 16538-91-3P 59534-21-3P 63255-80-1P 63255-81-2P
63255-83-4P 63255-84-5P 63255-85-6P
(preparation of)

L23 ANSWER 25 OF 28 HCAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 1977:406408 HCAPLUS Full-text

DOCUMENT NUMBER: 87:6408

ORIGINAL REFERENCE NO.: 87:1043a,1046a

TITLE: Trisubstituted ethylenes containing halo, cyano, and carbomethoxy substituents. New reactive comonomers

AUTHOR(S): Hall, H. K., Jr.; Ykman, P.

CORPORATE SOURCE: Dep. Chem., Univ. Arizona, Tucson, AZ, USA

SOURCE: Macromolecules (1977), 10(2), 464-9
CODEN: MAMOBX; ISSN: 0024-9297

DOCUMENT TYPE: Journal

LANGUAGE: English

ED Entered STN: 12 May 1984

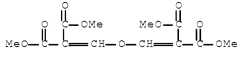
AB Eight new electrophilic trisubstituted ethylenes containing halo, cyano, and carbomethoxy substituents copolymd. readily with styrene and bicyclobutane comonomers under free radical conditions to give soluble copolymers with glass transition temps. that were higher when the substituents had high dipolar character. Spontaneous cationic homopolymn. of p-methoxystyrene, caused by

several of the electrophilic olefins, occurred simultaneously with their radical-induced copolymn., and only di-Me 2-cyanoethylene-1,1-dicarboxylate [62693-70-3] gave strictly 1:1 copolymers. 1-Chloro-olefins gave copolymers approaching 1:1 composition, whereas 2-chloro- and 2-fluoroolefins were less satisfactory comonomers. The copolymers of the 1-chloroolefins with styrene gave brittle flammable films.

IT 62701-46-6P
(preparation of)

RN 62701-46-6 HCAPLUS

CN Propanedioic acid, 2,2'-(oxydimethylidyne)bis-, tetramethyl ester (9CI) (CA INDEX NAME)



CC 35-3 (Synthetic High Polymers)
Section cross-reference(s): 23

IT 16640-68-9P 57205-35-3P 57205-40-0P 62701-46-6P
(preparation of)

OS.CITING REF COUNT: 20 THERE ARE 20 CAPLUS RECORDS THAT CITE THIS RECORD (20 CITINGS)

L23 ANSWER 26 OF 28 HCAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 1976:150165 HCAPLUS Full-text

DOCUMENT NUMBER: 84:150165

ORIGINAL REFERENCE NO.: 84:24395a,24398a

TITLE: Fluorine-containing allenes. 4. Reaction of esters of perfluoromethacrylic and difluoromethylenemalonic acids with malonic acid ester

AUTHOR(S): Rozov, L. A.; Zeifman, Yu. V.; Cheburkov, Yu. A.; Knunyants, I. L.

CORPORATE SOURCE: Inst. Elementoorg. Soedin., Moscow, USSR

SOURCE: Izvestiya Akademii Nauk SSSR, Seriya Khimicheskaya (1976), (2), 372-4
CODEN: IASKA6; ISSN: 0002-3353

DOCUMENT TYPE: Journal

LANGUAGE: Russian

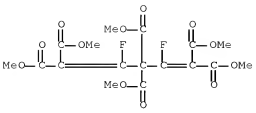
ED Entered STN: 12 May 1984

AB Condensation of CF2:C(CF3)CO2Me with CH2(CO2Me)2 (I) in absolute Et2O containing Et3N.BF3 afforded 20% MeO2CC(CF3):C:C(CO2Me)2. Dehydrofluorination of CF3CH(CO2Me)2 with Et3N.BF3 gave 63% CF2:C(CO2Me)2, which condensed with I to give 75% (MeO2C)2C[CF:C(CO2Me)2]2 and with NaCH(CO2Me)2 to give 62% (MeO2C)2C:C[CH(CO2Me)2]2.

IT 58975-77-2P
(preparation of)

RN 58975-77-2 HCAPLUS

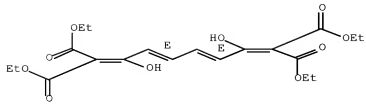
CN 2,5-Heptadienehexacarboxylic acid, 3,5-difluoro-, 1,2,4,4,6,7-hexamethyl ester (CA INDEX NAME)



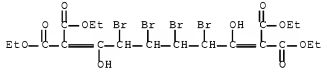
CC 23-17 (Aliphatic Compounds)
IT 58975-75-0P 58975-77-2P 58975-78-3P
(preparation of)

L23 ANSWER 27 OF 28 HCAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 1968:29211 HCAPLUS Full-text
DOCUMENT NUMBER: 68:29211
ORIGINAL REFERENCE NO.: 68:5635a,5638a
TITLE: Bromination of muconyldimalonates
AUTHOR(S): Fles, Dragutin; Majhofer, B.; Kovac, Michal
CORPORATE SOURCE: Istrazivacki Inst. Organ.-Kem. Ind., Zagreb, Yugoslavia
SOURCE: Bulletin Scientifique, Conseil des Academies des Sciences et des Beaux-arts de la R.S.F. de Yougoslavie, Section A. Sciences Naturelles, Techniques et Medicales (1967), 12(5-6), 121-2
CODEN: BSSCBW
DOCUMENT TYPE: Journal
LANGUAGE: English
ED Entered STN: 12 May 1984
GI For diagram(s), see printed CA Issue.
AB Brominated compds. derived from muconyldimalonates are prepared and the structure of these established by N.M.R. and ir spectroscopy. Muconyldimalonates (I) are synthesized by condensation of muconyl chloride and ethyl malonate, or ethyl tert-butyl malonate. Thus, to a solution of 4.26 g. I (R = CO2Et) in 50 ml. CCl4 was added 3.2 g. Br and the solution kept 5 hrs. at room temperature to give 100% tetra-Et 3,4,5,6-tetrabromo-cis-1,7-octadiene-2,7-diol-1,1,8,8-tetracarboxylate II (R = CO2Et). Similarly 4.6 g. I (R = CO2Et) gave with 4.8 g. Br 96% tetra-Et 1,3,4,5,6,8-hexabromooctane-2,7-dione-1,1,8,8- tetracarboxylate. With 6.4 g. Br I (R = CO2Et) gave 6.5% di-E t1,1,3,4,5,6,8,8-octabromooctane-2,7-dione-1,8-dicarboxylate (III), m. 126-7°. Bromination of 1.25 g. I (R = H) with 1.6 g. Br gave 85.1 II (R = H). Similarly 1.25 g. I (R = H) with 3.2 g. Br gave 22% di-Et 1,3,4,5,6,8-hexabromooctane-2,7-dione-1,8-dicarboxylate, m. 134-6°. II was prepared in 42% yield by treating 0.9 g. I (R = H) with 1.3 g. Br.
IT 18451-35-9
(bromination of)
RN 18451-35-9 HCAPLUS
CN 1,3,5,7-Octatetraene-1,1,8,8-tetracarboxylic acid, 2,7-dihydroxy-, tetraethyl ester, (E,E)- (8CI) (CA INDEX NAME)

Double bond geometry as shown.



IT 18328-53-5P
(preparation of)
RN 18328-53-5 HCAPLUS
CN 2,8-Decadienetetracarboxylic acid, 4,5,6,7-tetrabromo-3,8-dihydroxy-, 1,2,9,9-tetraethyl ester (CA INDEX NAME)



CC 23 (Aliphatic Compounds)
IT 18451-35-9 18451-36-0
(bromination of)
IT 18328-53-5P 18328-54-6P 18328-55-7P 18328-56-8P
18451-37-1P
(preparation of)

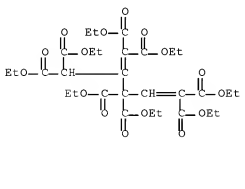
L23 ANSWER 28 OF 28 HCAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 1922:24645 HCAPLUS Full-text
DOCUMENT NUMBER: 16:24645
ORIGINAL REFERENCE NO.: 16:4187d-i,4188a-b
TITLE: Ring-chain tautomerism. III. The occurrence of tautomerism of the three-carbon (glutaconic) type between a homocyclic compound and its unsaturated open-chain isomeride
AUTHOR(S): Ingold, Christopher Kelk; Perren, Edward Arthur; Thorpe, J. F.
SOURCE: Journal of the Chemical Society, Transactions (1922), 121, 1765-89
CODEN: JCHTA3; ISSN: 0368-1645
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable
ED Entered STN: 16 Dec 2001
AB cf. C. A. 16, 912, 2141, 3065. A general discussion of the conditions which govern the occurrence of any Michael reaction: The acetic ester must contain a neg. substituent such as a -CO2Et or -CN group to confer the necessary mobility on the adjacent H atom. The acrylic ester involved should be only lightly substituted. The presence of a β-substituent, particularly 2 β-substituents, considerably reduces the tendency towards condensation. The effect is apparently a spatial one. The presence of an α-substituent greatly inhibits condensation, the magnitude of the effect depending on the size of the group. The simple spatial relationships noted above break down in the

case of strongly electroneg. substituents, such as the -CO2Et and -CN groups, which inhibit condensation very slightly. Et α-cyano-γ-ethylglutaconate (from Et α-formylbutyrate, b15 100°, and CHNa(CN)CO2Et), b14 163°. The γ-Ph derivative, b14 200-5°. The self-condensation of glutaconic esters alone and with piperidine was tested for a number of compds. The following esters appeared not to have given any condensation product after a year: EtO2CCH2CH:CHCO2Et, EtO2CCH2C(CO2Et):CHCO2Et, EtO2CCHMeCH:CHCO2Et, EtO2CCH2CMe:CHCO2Et, EtO2CCH(CN)CMe:CHCO2Et, EtO2CCH(CN)CMe:CEtCO2Et, EtO2CCH(CN)CH:CMeCO2Et, (EtO2C)2CHCH:CEtCO2Et, EtO2CCH(CN)CH:CEtCO2Et and EtO2CCH(CN)CH:CPhCO2Et. The self-condensation of (EtO2C)2CHCH:CHCO2Et is practically complete in a week in the presence of a catalyst, giving Et 2,2,4,4,-tetracarboxycyclobutane-1,3- diacetate (cf. Guthzeit, C. A. 4, 906). In the condensation of (EtO2C)2CHCH:C(CO2Et)2 in the presence of piperidine, Et piperidinomethylenemalonate also is formed, pale yellow rhombohedral plates, m. 216° (decomposition). Et 2,2,4,4-tetracarboxycyclobutane-1,3-dimalonate, m. 103°, upon fusing, or maintaining in solution with piperidine for a long period, gives an equilibrium mixture, containing about 80% of the cyclobutane ester and about 10% of Et α,α,γ,γ,ε,ε-hexacarboxy-Δα-pentene-δ-malonate, the constitution of which was established by hydrolysis to α,γ,ε-tricarboxy-Δα-pentene-δ- acetic acid, sirupy, which, on oxidation, gave CH(CH2CO2H)3. Et 2,4-dicyano-2,4-dicarboxycyclobutane-1,3-di-α-propionate, from the condensation of EtO2CCH(CN)CH:CMeCO2Et, long silky needles and small glistening plates, both m. 87°. With 20% HCl this gives a mixture of trans-2,4-dicarboxycyclobutane-1,3-di-α-propionic acid, m. 251°, separated from the cis-acid by treatment with AcCl, which converted the latter into its anhydride; cis-acid, m. 144-5°. Condensation of different esters gave: Et 2-cyano-2,4,4-tricarboxycyclobutane-1-malonate-3-α-propionate, viscous liquid, b15 260°. Et 2,2,4,4-tetracarboxycyclobutane-1-malonate-3-acetate, long needles, m. 92°. Et 2-cyano-2,4,4-tricarboxycyclobutane-1-acetate-3- α-propionate, stout prisms, m. 81°. 2,4-Dicarboxycyclobutane-1,3-diacetic anhydride, by boiling either the α- or β-form of the acid with AcCl, m. 235°. On heating the β-acid with 30% HCl at 200° for 5 h., it is converted to the ε-acid, m. 223°.

IT 861336-62-1P, Δ1-1,1,3,3,5,5-Pentenehexacarboxylic acid, 4-(dicarboxymethyl)-, octaethyl ester
(preparation of)

RN 861336-62-1 HCAPLUS

CN 2,5-Heptadienehexacarboxylic acid, 3-[2-ethoxy-1-(ethoxycarbonyl)-2-oxoethyl]-, 2,2,4,4,6,7-hexaethyl ester (CA INDEX NAME)



CC 10 (Organic Chemistry)

IT 36873-42-4P, Butyric acid, α-formyl-, ethyl ester 62615-75-2P,

Malonic acid, (1-piperidylmethylene)-, diethyl ester 98129-24-9P, 1,3-Cyclobutanedimalonic acid, 2,2,4,4-tetracarbethoxy-, tetraethyl ester 861315-93-7P, Cyclobutanemalonic acid, 2,4,4-tricarboxy-3-(α-carboxyethyl)-2-cyano-, hexaethyl ester 861336-62-1P, Δ1-1,1,3,3,5,5-Pentenehexacarboxylic acid, 4-(dicarboxymethyl)-, octaethyl ester 861342-50-9P, Δ1-1,3,5-Pentenetricarboxylic acid, 4-(carboxymethyl)- 861618-99-7P, Cyclobutanemalonic acid, 2,2,4,4-tetracarboxy-3-(carboxymethyl)-, heptaethyl ester 861619-11-6P, 1,3-Cyclobutanediacetic acid, 2,2,4-tricarboxy-4-cyano-α'-methyl-, pentaethyl ester 861619-13-8P, 1,3-Cyclobutanediacetic acid, 2,4-dicarboxy-2,4-dicyano-α,α'-dimethyl-, tetraethyl ester (preparation of)

OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)

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                 BI OR 68858-20-8/BI OR 838839-63-7/BI OR 838839-64-8/BI)
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L9           531 SEA SSS FUL L7
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L14              STR L7
L15            0 SEA SUB=L9 SSS SAM L14
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                 SAV L16 KAH430A/A
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